

WEST Search History

DATE: Sunday, June 25, 2006

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<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L26	L25 not l20	36
<input type="checkbox"/>	L25	L24 and ammonium	36
<input type="checkbox"/>	L24	L21 and protein and membrane	71
<input type="checkbox"/>	L23	L22 and ctab	1
<input type="checkbox"/>	L22	L21 and protein	152
<input type="checkbox"/>	L21	johansen.in.	2020
<input type="checkbox"/>	L20	L19	36
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L19	L18 and membrane	36
<input type="checkbox"/>	L18	L17 with cell	38
<input type="checkbox"/>	L17	(ctab or ltab) with protein	75
<input type="checkbox"/>	L16	ammonium with protein	9016
<input type="checkbox"/>	L15	6251626	4
<input type="checkbox"/>	L14	4968629	9
<input type="checkbox"/>	L13	5922573	4
<input type="checkbox"/>	L12	L10.pn.	1
<input type="checkbox"/>	L10	4372888	24
<input type="checkbox"/>	L9	L8.pn.	1
<input type="checkbox"/>	L8	4346018	33
<input type="checkbox"/>	L7	5977306	5
<input type="checkbox"/>	L6	5240834	7
<input type="checkbox"/>	L5	L4.pn.	1
<input type="checkbox"/>	L4	4683293	28
<input type="checkbox"/>	L3	3801461	5
<input type="checkbox"/>	L2	5124256	3
<input type="checkbox"/>	L1	5132205	8

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Search Results - Record(s) 1 through 10 of 36 returned.

☐ 1. Document ID: US 7037714 B2

L19: Entry 1 of 36

File: USPT

May 2, 2006

US-PAT-NO: 7037714

DOCUMENT-IDENTIFIER: US 7037714 B2

TITLE: Expression vectors encoding Bacillus subtilis disulfide bond isomerase and methods of secreting proteins in gram-positive microorganisms using the same

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030124676 A1

July 3, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 2. Document ID: US 7033817 B2

L19: Entry 2 of 36

File: USPT

Apr 25, 2006

US-PAT-NO: 7033817

DOCUMENT-IDENTIFIER: US 7033817 B2

TITLE: Proteases from gram positive organisms

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20060035367 A1

February 16, 2006

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 3. Document ID: US 6972183 B1

L19: Entry 3 of 36

File: USPT

Dec 6, 2005

US-PAT-NO: 6972183

DOCUMENT-IDENTIFIER: US 6972183 B1

TITLE: Capillary array-based enzyme screening

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 4. Document ID: US 6911333 B2

L19: Entry 4 of 36

File: USPT

Jun 28, 2005

US-PAT-NO: 6911333

DOCUMENT-IDENTIFIER: US 6911333 B2

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 5. Document ID: US 6905868 B2

L19: Entry 5 of 36

File: USPT

Jun 14, 2005

US-PAT-NO: 6905868

DOCUMENT-IDENTIFIER: US 6905868 B2

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 6. Document ID: US 6881562 B2

L19: Entry 6 of 36

File: USPT

Apr 19, 2005

US-PAT-NO: 6881562

DOCUMENT-IDENTIFIER: US 6881562 B2

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 7. Document ID: US 6872807 B2

L19: Entry 7 of 36

File: USPT

Mar 29, 2005

US-PAT-NO: 6872807

DOCUMENT-IDENTIFIER: US 6872807 B2

TITLE: Proteases from gram positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw De
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☐ 8. Document ID: US 6872526 B2

L19: Entry 8 of 36

File: USPT

Mar 29, 2005

US-PAT-NO: 6872526

DOCUMENT-IDENTIFIER: US 6872526 B2

TITLE: High throughput screening for novel Bioactivities

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 9. Document ID: US 6849440 B2

L19: Entry 9 of 36

File: USPT

Feb 1, 2005

US-PAT-NO: 6849440

DOCUMENT-IDENTIFIER: US 6849440 B2

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 10. Document ID: US 6846627 B2

L19: Entry 10 of 36

File: USPT

Jan 25, 2005

US-PAT-NO: 6846627

DOCUMENT-IDENTIFIER: US 6846627 B2

TITLE: Screening for novel compounds which regulate biological interactions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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Terms

Documents

L18 and membrane

36

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Search Results - Record(s) 11 through 20 of 36 returned.

☐ 11. Document ID: US 6833265 B2

L19: Entry 11 of 36

File: USPT

Dec 21, 2004

US-PAT-NO: 6833265

DOCUMENT-IDENTIFIER: US 6833265 B2

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 6833261 B2

L19: Entry 12 of 36

File: USPT

Dec 21, 2004

US-PAT-NO: 6833261

DOCUMENT-IDENTIFIER: US 6833261 B2

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 13. Document ID: US 6806048 B2

L19: Entry 13 of 36

File: USPT

Oct 19, 2004

US-PAT-NO: 6806048

DOCUMENT-IDENTIFIER: US 6806048 B2

TITLE: Method for high throughput screening of an environmental library

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 6797476 B2

L19: Entry 14 of 36

File: USPT

Sep 28, 2004

US-PAT-NO: 6797476

DOCUMENT-IDENTIFIER: US 6797476 B2

TITLE: Process for the scaleable purification of plasmid DNA

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Da
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☐ 15. Document ID: US 6794179 B2

L19: Entry 15 of 36

File: USPT

Sep 21, 2004

US-PAT-NO: 6794179

DOCUMENT-IDENTIFIER: US 6794179 B2

TITLE: Proteases from gram positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Da
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☐ 16. Document ID: US 6762039 B2

L19: Entry 16 of 36

File: USPT

Jul 13, 2004

US-PAT-NO: 6762039

DOCUMENT-IDENTIFIER: US 6762039 B2

TITLE: Bacillus subtilis with an inactivated cysteine protease-1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Da
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☐ 17. Document ID: US 6723550 B1

L19: Entry 17 of 36

File: USPT

Apr 20, 2004

US-PAT-NO: 6723550

DOCUMENT-IDENTIFIER: US 6723550 B1

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Da
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☐ 18. Document ID: US 6676942 B1

L19: Entry 18 of 36

File: USPT

Jan 13, 2004

US-PAT-NO: 6676942

DOCUMENT-IDENTIFIER: US 6676942 B1

TITLE: Osp a proteins of Borrelia burgdorferi subgroups, encoding genes and vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Da
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☐ 19. Document ID: US 6602675 B2

L19: Entry 19 of 36

File: USPT

Aug 5, 2003

US-PAT-NO: 6602675

DOCUMENT-IDENTIFIER: US 6602675 B2

TITLE: High throughput screening of mycelia for bioactivities or biomolecules

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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☐ 20. Document ID: US 6599731 B1

L19: Entry 20 of 36

File: USPT

Jul 29, 2003

US-PAT-NO: 6599731

DOCUMENT-IDENTIFIER: US 6599731 B1

TITLE: Proteases from gram positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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Terms	Documents
L18 and membrane	36

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Search Results - Record(s) 21 through 30 of 36 returned.

☐ 21. Document ID: US 6592876 B1

L19: Entry 21 of 36

File: USPT

Jul 15, 2003

US-PAT-NO: 6592876

DOCUMENT-IDENTIFIER: US 6592876 B1

TITLE: Pneumococcal genes, portions thereof, expression products therefrom, and uses of such genes, portions and products

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 22. Document ID: US 6533766 B1

L19: Entry 22 of 36

File: USPT

Mar 18, 2003

US-PAT-NO: 6533766

DOCUMENT-IDENTIFIER: US 6533766 B1

**** See image for Certificate of Correction ****

TITLE: Coating medical device surfaces for delivering gas-supersaturated fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 23. Document ID: US 6528255 B1

L19: Entry 23 of 36

File: USPT

Mar 4, 2003

US-PAT-NO: 6528255

DOCUMENT-IDENTIFIER: US 6528255 B1

TITLE: Proteases from gram positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 24. Document ID: US 6521440 B1

L19: Entry 24 of 36

File: USPT

Feb 18, 2003

US-PAT-NO: 6521440

DOCUMENT-IDENTIFIER: US 6521440 B1

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 25. Document ID: US 6521421 B1

L19: Entry 25 of 36

File: USPT

Feb 18, 2003

US-PAT-NO: 6521421

DOCUMENT-IDENTIFIER: US 6521421 B1

TITLE: Expression vectors encoding Bacillus subtilis disulfide bond isomerase and methods of secreting proteins in gram-positive microorganisms using the same

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 26. Document ID: US 6500613 B1

L19: Entry 26 of 36

File: USPT

Dec 31, 2002

US-PAT-NO: 6500613

DOCUMENT-IDENTIFIER: US 6500613 B1

TITLE: Pneumococcal surface proteins and uses thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 27. Document ID: US 6489108 B1

L19: Entry 27 of 36

File: USPT

Dec 3, 2002

US-PAT-NO: 6489108

DOCUMENT-IDENTIFIER: US 6489108 B1

**** See image for Certificate of Correction ****

TITLE: Proteases from gram positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 28. Document ID: US 6465186 B1

L19: Entry 28 of 36

File: USPT

Oct 15, 2002

US-PAT-NO: 6465186

DOCUMENT-IDENTIFIER: US 6465186 B1

TITLE: Proteases from gram positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw De
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☐ 29. Document ID: US 6316241 B1

L19: Entry 29 of 36

File: USPT

Nov 13, 2001

US-PAT-NO: 6316241

DOCUMENT-IDENTIFIER: US 6316241 B1

**** See image for Certificate of Correction ****

TITLE: Alpha/beta hydrolase-fold enzymes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw De
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☐ 30. Document ID: US 6300117 B1

L19: Entry 30 of 36

File: USPT

Oct 9, 2001

US-PAT-NO: 6300117

DOCUMENT-IDENTIFIER: US 6300117 B1

TITLE: Proteases from gram-positive organisms

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K00C	Draw De
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L18 and membrane	36

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

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Search Results - Record(s) 31 through 36 of 36 returned.

☐ 31. Document ID: US 6174673 B1

L19: Entry 31 of 36

File: USPT

Jan 16, 2001

US-PAT-NO: 6174673

DOCUMENT-IDENTIFIER: US 6174673 B1

TITLE: High throughput screening for novel enzymes

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 32. Document ID: US 6113914 A

L19: Entry 32 of 36

File: USPT

Sep 5, 2000

US-PAT-NO: 6113914

DOCUMENT-IDENTIFIER: US 6113914 A

TITLE: Osp A proteins of Borrelia burgdorferi subgroups, encoding genes and vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 33. Document ID: US 6110674 A

L19: Entry 33 of 36

File: USPT

Aug 29, 2000

US-PAT-NO: 6110674

DOCUMENT-IDENTIFIER: US 6110674 A

TITLE: Apparatus and method for nucleic acid isolation using supercritical fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 34. Document ID: US 5942236 A

L19: Entry 34 of 36

File: USPT

Aug 24, 1999

US-PAT-NO: 5942236

DOCUMENT-IDENTIFIER: US 5942236 A

TITLE: Osp A proteins of Borrelia burgdorferi subgroups, encoding genes and vaccines

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw De
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☐ 35. Document ID: US 5922536 A

L19: Entry 35 of 36

File: USPT

Jul 13, 1999

US-PAT-NO: 5922536

DOCUMENT-IDENTIFIER: US 5922536 A

TITLE: Method for nucleic acid isolation using supercritical fluids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw De
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☐ 36. Document ID: US 5789174 A

L19: Entry 36 of 36

File: USPT

Aug 4, 1998

US-PAT-NO: 5789174

DOCUMENT-IDENTIFIER: US 5789174 A

TITLE: Detection of periodontal pathogens including bacteroides forsythus, porphyromonas gingivalis, prevotella intermedia and prevotella nigrescens

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachment	Claims	KWIC	Draw De
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NEWS 4 FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS 5 FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS 6 FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS 7 FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS 8 MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS 9 MAR 22	EMBASE is now updated on a daily basis
NEWS 10 APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS 11 APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
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NEWS 14 APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS 15 APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS 16 MAY 10	CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 17 MAY 11	KOREAPAT updates resume
NEWS 18 MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS 19 MAY 30	IPC 8 Rolled-up Core codes added to CA/CAPLUS and USPATFULL/USPAT2
NEWS 20 MAY 30	The F-Term thesaurus is now available in CA/CAPLUS
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=> s protein (5a) ammonium

10 FILES SEARCHED...

L1 6986 PROTEIN (5A) AMMONIUM

=> s protein (5a) (ltab or ctab)

L2 234 PROTEIN (5A) (LTAB OR CTAB)

=> s l2 (5a)membrane

L3 21 L2 (5A) MEMBRANE

=> dup rem l3

PROCESSING COMPLETED FOR L3

L4 6 DUP REM L3 (15 DUPLICATES REMOVED)

=> d 1-6

L4 ANSWER 1 OF 6 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on
STN DUPLICATE 1

AN 2005:425692 SCISEARCH

GA The Genuine Article (R) Number: 915LJ

TI The effect of multivalent cations on ***membrane*** - ***protein***
interactions during cleaning with ***CTAB***

AU Tran-Ha M H; Santos V; Wiley D E (Reprint)

CS Univ New S Wales, UNESCO, Ctr Membrane Sci & Technol, Sch Chem Engrg & Ind
Chem, Sydney, NSW 2052, Australia (Reprint)
d.wiley@unsw.edu.au

CYA Australia

SO JOURNAL OF MEMBRANE SCIENCE, (1 APR 2005) Vol. 251, No. 1-2, pp. 179-188.
ISSN: 0376-7388.

PB ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.

DT Article; Journal

LA English

REC Reference Count: 31

ED Entered STN: 28 Apr 2005

Last Updated on STN: 28 Apr 2005

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L4 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:758410 HCAPLUS
DN 142:3295
TI Outer membrane barrier and plasmid-mediated resistance of *Pseudomonas aeruginosa* to quaternary ammonium compounds and antibiotics
AU Okasha, M. M. Kh.
CS Department of Microbiology and Immunology, Faculty of Pharmacy, Zagazig University, Egypt
SO New Egyptian Journal of Microbiology (2004), 8, 333-347
CODEN: NEJMCI; ISSN: 1687-1219
PB Egyptian Society for Biotechnology
DT Journal
LA English
RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 6 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 2
AN 1997:706547 SCISEARCH
GA The Genuine Article (R) Number: XX268
TI CTAB electrophoresis and immunoblotting: a new method for the determination of soy protein in meat products
AU Kors M (Reprint); Steinhart H
CS UNIV HAMBURG, INST LEBENSMITTELCHEM & BIOCHEM, D-20146 HAMBURG, GERMANY
CYA GERMANY
SO ZEITSCHRIFT FUR LEBENSMITTEL-UNTERSUCHUNG UND-FORSCHUNG A-FOOD RESEARCH AND TECHNOLOGY, (1997) Vol. 205, No. 3, pp. 224-226.
ISSN: 1431-4630.
PB SPRINGER VERLAG, 175 FIFTH AVE, NEW YORK, NY 10010.
DT Article; Journal
FS AGRI
LA English
REC Reference Count: 14
ED Entered STN: 1997
Last Updated on STN: 1997
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L4 ANSWER 4 OF 6 MEDLINE on STN DUPLICATE 3
AN 96248449 MEDLINE
DN PubMed ID: 8665949
TI Low-spin heme A in the heme A biosynthetic protein CtaA from *Bacillus subtilis*.
AU Svensson B; Andersson K K; Hederstedt L
CS Department of Microbiology, Lund University, Sweden.
SO European journal of biochemistry / FEBS, (1996 May 15) Vol. 238, No. 1, pp. 287-95.
Journal code: 0107600. ISSN: 0014-2956.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199608
ED Entered STN: 19 Aug 1996
Last Updated on STN: 19 Aug 1996
Entered Medline: 2 Aug 1996

L4 ANSWER 5 OF 6 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 4
AN 1995:427319 SCISEARCH
GA The Genuine Article (R) Number: RE495
TI CHANGES IN THE MEMBRANE-PROTEINS OF BUCK (*CAPRA-HIRCUS*) SPERMATOZOA DURING EPIDIDYMAL MATURATION
AU SUNDHEY R (Reprint); AHUJA S P; SINGH B
CS PUNJAB AGR UNIV, DEPT BIOCHEM, LUDHIANA 141004, PUNJAB, INDIA; GURU NANAK DEV UNIV, DEPT BIOCHEM & MOLEC BIOL, AMRITSAR 143005, PUNJAB, INDIA
CYA INDIA
SO SMALL RUMINANT RESEARCH, (MAY 1995) Vol. 16, No. 3, pp. 251-261.
ISSN: 0921-4488.
PB ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS.

DT Article; Journal
FS AGRI
LA English
REC No References Keyed
ED Entered STN: 1995
Last Updated on STN: 1995
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L4 ANSWER 6 OF 6 MEDLINE on STN DUPLICATE 5
AN 79100546 MEDLINE
DN PubMed ID: 760386
TI The binding of CTAB, a cationic surfactant, to the rat erythrocyte membrane.
AU Isomaa B; Bergman H; Sandberg P
SO Acta pharmacologica et toxicologica, (1979 Jan) Vol. 44, No. 1, pp. 36-42.
Journal code: 0370572. ISSN: 0001-6683.
CY Denmark
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 197903
ED Entered STN: 15 Mar 1990
Last Updated on STN: 15 Mar 1990
Entered Medline: 24 Mar 1979

=> d 5,6 ab

L4 ANSWER 5 OF 6 SCISEARCH COPYRIGHT (c) 2006 The Thomson Corporation on STN DUPLICATE 4
AB Membrane proteins of the testicular cells/epididymal spermatozoa from goat bucks (*Capra hircus*) were extracted by detergents/proteases. The proportion of membrane proteins extracted were variable by Fast Protein Liquid Chromatography (FPLC) and Polyacrylamide Gel Electrophoresis (PAGE). Proportion of negatively charged >70 kDa ***proteins***, extractable by cetyltrimethyl ammonium bromide (***CTAB***) from testicular cell ***membranes*** was lower than that extracted from epididymal spermatozoal membranes. Reverse was the case with positively charged >170 kDa proteins extracted by sodium dodecyl sulphate (SDS). FPLC results show that the proportion of >170 kDa proteins with higher negative charge increases as the spermatozoa undergo epididymal maturation. The proportion of 35-170 kDa proteins extractable by deoxycholate were much less in the membranes of cauda spermatozoa. FPLC showed predominance and increasing proportion of <25 kDa proteins in epididymal spermatozoal membranes. PAGE patterns of detergent extracts indicate that 220 kDa, <25 kDa proteins/glycoproteins are added onto the caput whereas 70 kDa are added onto corpus spermatozoal membranes. The proportion of >170 kDa proteins extracted by proteases from cauda spermatozoal membranes was much higher than extracted from testicular cell membranes. The reverse was the case with <25 kDa proteins. FPLC showed that the proportion of >170 kDa proteins with higher negative charge increases as spermatozoa undergo epididymal maturation. From the literature it appears that such >170 kDa proteins, extracted by SDS, CTAB and proteases are involved in capacitation of spermatozoa, fusion of the membranes of the gametes, penetration of ovum with spermatozoa, fertilization and division of the oocytes.

L4 ANSWER 6 OF 6 MEDLINE on STN DUPLICATE 5
AB The adsorption of CTAB (cetyltrimethylammonium bromide) to the rat erythrocyte membrane was studied by determining the electrophoretic mobility of erythrocytes treated with CTAB and by SDS polyacrylamide electrophoresis of ***membrane*** ***proteins*** from erythrocytes treated with ¹⁴C- ***CTAB***. At low concentrations of CTAB there was only a small reduction in the electrophoretic mobility of the erythrocytes. At lytic concentrations the electrophoretic mobility of the erythrocytes was markedly reduced. Alterations at the cell surface were found to be a more likely reason for the reduction in the electrophoretic mobility than interactions between the surfactant and charged groups at the cell surface. Very small amounts of radioactivity were found to be associated with the protein and sialoglycoprotein bands of the polyacrylamide gels. It is suggested that the adsorption of CTAB to the rat erythrocyte membrane does not involve electrostatic interactions

between the surfactant and negatively charged groups of the
sialoglycoproteins and that membrane proteins do not play a major role in
the lytic events.

=> s johansen, c?/au
L5 1458 JOHANSEN, C?/AU

=> s l5 and ctab
L6 3 L5 AND CTAB

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7 2 DUP REM L6 (1 DUPLICATE REMOVED)

=> d 1,2

L7 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:1080624 HCAPLUS
DN 142:51838
TI Extraction of proteins from cells using quaternary ammonium compounds
IN ***Johansen, Claus Lindvald*** ; Kjaerulff, Soren; Madrid, Susan
Mampusta; Pedersen, Henrik; Poulsen, Charlotte Horsmans; Zargahi, Masoud
Rajabi
PA Den.
SO U.S. Pat. Appl. Publ., 74 pp., Cont.-in-part of U.S. Ser. No. 722,939,
abandoned.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004253671	A1	20041216	US 2003-693234	20031024
	WO 2001038544	A1	20010531	WO 2000-IB1886	20001124
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
PRAI	GB 1999-27801	A	19991124		
	WO 2000-IB1886	A1	20001124		
	US 2000-722938	B2	20001127		

L7 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN DUPLICATE 1
AN 2001:397062 HCAPLUS
DN 135:16361
TI Use of quaternary ammonium compounds to isolate intracellular proteins
from recombinant cells
IN ***Johansen, Claus Lindvald*** ; Kjaerulff, Soren; Madrid, Susan
Mampusti; Pedersen, Henrik; Poulsen, Charlotte Horsmans; Zargahi, Masoud
Rajabi
PA Danisco A/s, Den.
SO PCT Int. Appl., 108 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001038544	A1	20010531	WO 2000-IB1886	20001124
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,			

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
 BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2391522	AA	20010531	CA 2000-2391522	20001124
BR 2000015823	A	20020723	BR 2000-15823	20001124
EP 1232269	A1	20020821	EP 2000-981537	20001124

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2003514563	T2	20030422	JP 2001-539886	20001124
NZ 518660	A	20031031	NZ 2000-518660	20001124
AU 783526	B2	20051103	AU 2001-18770	20001124
US 2004253671	A1	20041216	US 2003-693234	20031024

PRAI GB 1999-27801 A 19991124
 WO 2000-IB1886 W 20001124
 US 2000-722938 B2 20001127

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> dis his

(FILE 'HOME' ENTERED AT 20:34:17 ON 25 JUN 2006)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 20:34:30 ON 25 JUN 2006

L1 6986 S PROTEIN (5A) AMMONIUM
 L2 234 S PROTEIN (5A) (LTAB OR CTAB)
 L3 21 S L2 (5A) MEMBRANE
 L4 6 DUP REM L3 (15 DUPLICATES REMOVED)
 L5 1458 S JOHANSEN, C?/AU
 L6 3 S L5 AND CTAB
 L7 2 DUP REM L6 (1 DUPLICATE REMOVED)

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

42.89

43.10

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 20:41:55 ON 25 JUN 2006